

CLAIMS

1. A vehicle mounting structure for a fuel cell system comprising:

a vehicle floor;

5 a vehicle skeletal member positioned under the vehicle floor, having floor frames provided on sides of a vehicle body along a longitudinal direction of a vehicle and cross members provided in a width direction of the vehicle and connected to the floor frames; and

10 a fuel cell unit and an auxiliary unit of the fuel cell unit disposed to be adjacent in the longitudinal direction of the vehicle,

wherein the fuel cell unit and the auxiliary unit are each sandwiched from both sides in the longitudinal direction of the vehicle by two of the cross members.

2. A vehicle mounting structure for a fuel cell system according to claim 1, further

15 comprising an electrical storage device, wherein the auxiliary unit, the fuel cell unit, and the electrical storage device are disposed in that order along the longitudinal direction of the vehicle, and the electrical storage device is sandwiched from both sides in the longitudinal direction of the vehicle by two of the cross members.

20 3. A vehicle mounting structure for a fuel cell system according to claim 1 or claim 2, further comprising: high voltage electrical system auxiliary components; and side sills provided along the longitudinal direction of the vehicle at positions to an outside of the floor frames in the width direction of the vehicle, wherein the high voltage electrical system auxiliary components are disposed in an area between the floor frames and the

25 side sills.

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ABSTRACT

A vehicle mounting structure for a fuel cell system containing a vehicle floor; a vehicle skeletal member positioned under the vehicle floor, having floor frames provided on the sides of the vehicle body along the longitudinal direction of the vehicle and a plurality of cross members provided in the width direction of the vehicle and connected to the floor frames; and a fuel cell unit and an auxiliary unit of the fuel cell disposed to be adjacent in the longitudinal direction of the vehicle. The fuel cell unit and the auxiliary unit is each sandwiched from both sides in the longitudinal direction of the vehicle by two of the cross members. This vehicle mounting structure for a fuel cell system prevents the length of piping and the length of wiring from becoming excessively long and improves collisional stabilization.

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